Title (en)

MEMBRANES WITH IMMOBILIZED MICROORGANISMS THEREON AND/OR THEREIN, PROCESS FOR OBTAINING SUCH MEMBRANES, REACTOR COMPRISING SAID MEMBRANES AND PROCESS INVOLVING THE USE OF SAID MEMBRANES, IN PARTICULAR FOR THE ELIMINATION OF METALS OR THE DEGRADATION OF XENOBIOTIC ORGANIC COMPOUNDS

Title (de)

Membranen mit immobilisierten Mikroorganismen darauf oder darin, Verfahren zur Herstellung solcher Membranen , Reaktor mit solchen Membranen und Verfahren unter Verwendung dieser Membranen, insbesondere zur Entfernung von Metallen oder zur Absetzung von organischen, xenobiotischen Verbindungen

Title (fr)

MEMBRANES SUR LESQUELLES ET/OU DANS LESQUELLES SONT IMMOBILISES DES MICROORGANISMES, LEUR PROCEDE DE PRODUCTION, REACTEUR LES COMPORTANT, ET PROCEDE CONSISTANT A LES UTILISER, NOTAMMENT POUR L'ELIMINATION DE METAUX OU LA DEGRADATION DE COMPOSES ORGANIQUES XENOBIOTIQUES

Publication

EP 0579630 B1 20000105 (EN)

Application

EP 92907241 A 19920406

Priority

- EP 92907241 A 19920406
- EP 91400986 A 19910412
- EP 9200779 W 19920406

Abstract (en)

[origin: WO9218609A1] The invention relates to membranes with immobilized microorganisms thereon and/or therein wherein the microorganisms are alive or in a viable form, and the membranes are of porous material such that the microorganisms, particularly bacteria, can settle in the pores, and such that the release of the microorganisms is not significant. The invention also relates to new reactors, enabling to eliminate metals and/or to degrade xenobiotic organic compounds in an effluent containing them or the synthesize compounds.

IPC 1-7

C12M 1/40; C12M 1/12; C12M 3/00; C12N 11/00; C02F 3/00

IPC 8 full level

B01D 69/14 (2006.01); **C02F 3/00** (2006.01); **C02F 3/10** (2006.01); **C12M 1/12** (2006.01); **C12M 1/40** (2006.01); **C12M 3/00** (2006.01); **C12N 11/00** (2006.01)

CPC (source: EP)

C02F 3/102 (2013.01); **C12M 25/10** (2013.01); **C12M 29/16** (2013.01); Y02W 10/10 (2015.05)

Cited by

WO2013022803A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU MC NL SE

DOCDB simple family (publication)

WO 9218609 A1 19921029; AT E188506 T1 20000115; CA 2107886 A1 19921013; CA 2107886 C 20000201; DE 69230529 D1 20000210; DE 69230529 T2 20000621; DK 0579630 T3 20000724; EP 0579630 A1 19940126; EP 0579630 B1 20000105; ES 2141722 T3 20000401

DOCDB simple family (application)

EP 9200779 W 19920406; AT 92907241 T 19920406; CA 2107886 A 19920406; DE 69230529 T 19920406; DK 92907241 T 19920406; EP 92907241 A 19920406; ES 92907241 T 19920406